halton chemical inc.
QUALITY BLENDERS SINCE 1962

• lacquers & related wood coatings • solvent based & water based products • adhesives • coatings • cleaners • degreasers • thinners • reducers • epoxies • polyurethanes • toll manufacturing • product development • product enhancement • quality control • warehousing & logistics •

SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Manufacturer:..... HALTON CHEMICAL INC.
840 APPLEBY LINE, BURLINGTON, ON L7L 2Y7
www.haltonchemical.com
Phone:..... 905-637-3613

Supplier: ..... SCREENTEC CORPORATION
930 WESTPORT CRESCENT, MISSISSAUGA, ON L5T 1G1
www.screentec.ca
Phone:..... 905-670-7042

Emergency Phone: ..... CANUTEC (24H) 1-613-996-6666
Poison Control:..... 800-268-9017

Revision Date:..... February 16, 2016
Print Date:..... February 17, 2016
Version Number:..... 1

Product: ..... ET-12 RETARDER
Product Use: ..... INDUSTRIAL SOLVENT
FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:
Eyes, skin, liver, kidney, blood.

WHMIS Classification:
D2B - TOXIC (EYE AND SKIN IRRITANT)

GHS Classification:
Skin Irritation (Cat. 3)
Eye Irritation (Cat. 2A)

GHS Label Elements, including precautionary statements:

Pictogram:

Signal Word:..... Warning

Hazard Statement(s):
H313: May be harmful in contact with skin
H316: Causes mild skin irritation
H319: Causes serious eye irritation

Precautionary Statement(s):
P280: Wear protective gloves/protective clothing/eye protection/face protection
P264: Wash skin thoroughly after handling
P332+313: If skin irritation occurs: Get medical advice/attention
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+313: If eye irritation persists get medical advice/attention

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%
Diethylene Glycol Monobutyl Ether	112-34-5	99-100

Refer to Section 8 for Occupational Exposure Guidelines.

SECTION 4 – FIRST-AID MEASURES

Inhalation:
Remove source of contamination or move victim to fresh air, obtain medical advice. If breathing is stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

Ingestion:
Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 60 to 240ml (2 to 8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

Eyes:
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Skin:
As quickly as possible remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts. quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15 - 20 minutes.

Note to Physician:
Treatment should be based on sound judgement of physician and individual reactions of patient.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media:
Carbon dioxide, alcohol foam, water fog, dry chemical.

Special Fire Fighting Procedures:
Use water spray to cool fire-exposed containers or structures. Do not use a direct stream of water as it may spread fire. Product will float and can be reignited on surface of water.

Unusual Fire and Explosion Hazards:
Not available.

Hazardous Combustion Products:
Carbon monoxide and/or carbon dioxide. Toxic fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Dyke and contain spills. Do not let product enter drains.

Methods and Materials for Containment and Clean Up:
Contain and/or dyke spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

SECTION 7 – HANDLING AND STORAGE

Storage:
Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage and evaporation.

Handling:
Use in a well ventilated area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Threshold Limit Value:..... Not available.

Engineering Controls:
Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation.

Personal Protective Equipment:

Respiratory Protection:
Where risk assessment shows air-purifying respirators are appropriate, use an approved respirator for the concentration and type of hazardous materials in the workplace. Use respirators and components tested and approved under the appropriate government standards. Use respirators as backup to engineering controls if necessary.

Hand Protection:
Handle with gloves to minimize skin contact. Inspect gloves prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly.

Eye Protection:
Safety glasses and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

Protective Clothing:
Impervious clothing, flame retardant, antistatic protective clothing. The type of protective equipment should be selected according to the concentration and amount of hazardous materials at each specific workplace.

Additional Measures:
Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

SECTION 9 – PHYSICAL / CHEMICAL PROPERITES

Physical State: ..... Liquid
Appearance/Odour: ..... Colourless liquid, mild odour
Odour Threshold: ..... Not available
Vapour Density (AIR=1): 5.5-5.6
Boiling Point: ..... 230°C
Melting/Freezing Point: ..... -65°C
Vapour Pressure:..... 0.03-0.06 mmHg @ 20°C
Evaporation Rate: ..... No data
Specific Gravity: ..... 0.954°C @ 20°C
Solubility in Water: ..... Complete
Coeff. Water/Oil Dist.:..... 0.56

Flashpoint: ..... >100°C T.T.C.
Autoignition Temp:..... 210°C
Upper Flammable Limit:..... 24.60%
Lower Flammable Limit: 0.85%

SECTION 10 – STABILITY AND REACTIVITY

Stability:
Stable.

Hazardous Decomposition Products:
Carbon monoxide and/or carbon dioxide.

Materials to Avoid:
Strong oxidizing agents, light metals such as: galvanized materials, aluminum and its alloys, copper and its alloys.

Hazardous Reactions:
No data.

Conditions to Avoid:
Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
Diethylene Glycol Monobutyl Ether	5660 mg/kg	Not available	-

Skin corrosion/irritation:
Rabbit - mild skin irritation - 1 hour OECD Test Guideline 404

Serious eye damage/irritation:
Rabbit - irritating to eyes - OECD test guideline 405

Respiratory or skin sensitization:
Maximisation test (GPMT) guinea pig - does not cause skin sensitization OECD Test Guideline 406

Germ cell mutagenicity:
No adverse effects are anticipated. Genotoxicity in vitro - ames test - s.typhimurium - with and without metabolic activation - negative Genotoxicity in vivo - drosophila melanogaster - male and female - oral - negative

Carcinogenicity:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:
No adverse effects are anticipated. Rat - male and female - dermal - no adverse effects observed in chronic toxicity tests

Teratogenicity:
No adverse effects are anticipated.

Specific target organ toxicity (single exposure):
No data.

Specific target organ toxicity (repeated exposure):
No data.

Aspiration hazard:
Not classified as an aspiration hazard.

Potential Health Effects:

Inhalation:
This product has a low vapour pressure and is not expected to present an inhalation hazard at ambient temperatures. Vapours inhaled may cause irritation of the respiratory tract.

Ingestion:
Causes irritation, a burning sensation of the mouth, throat and abdominal pain.

Skin:
Prolonged and repeated contact can cause defatting and drying of the skin resulting in irritation and dermatitis. May be absorbed.

Eyes:
Can cause severe eye irritation. Can cause redness, tearing, and pain.

Signs and Symptoms of Exposure:
No data.

Synergistic effects:
May react with chlorinated solvents.

Additional information:
Extreme overexposure may cause red blood hemolysis, liver or kidney damage. Effects on skin and eyes may be delayed, damage may occur without onset of pain.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate and Distribution:
Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

Aquatoxicity:
LC50 (Lepomis Macrochirus) 1300 mg/L, 96H

Persistence and degradability:
Aerobic - 91.7% readily biodegradable OECD Test Guideline 301B

Bioaccumulative potential:
Does not bioaccumulate.

Mobility in soil:
No data.

Other adverse effects:
No data.

SECTION 13 –DISPOSAL CONSIDERATIONS

Waste disposal:
Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable regulations.

Contaminated Packaging:
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow any label warnings even after container is emptied.

SECTION 14 – TRANSPORTATION INFORMATION

TDG Classification (Ground Only): .....NON REGULATED
Proper Shipping Name (Ground Only): .....NON REGULATED

A scientific determination was concluded based on formulation ingredients on February 16, 2016 to define the Transportation of Dangerous Goods Classifications.

SECTION 15 - REGULATIONS

This material is included on the DLS (Canadian Domestic Substance List) under the CEPA (Canadian Environmental Protection Act).

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

This material meets TSCA (Toxic Substances Control Act) inventory requirements.

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

SECTION 16 – OTHER INFORMATION

LEGEND TO ABBREVIATIONS:
CAS: ..... CHEMICAL ABSTRACT SERVICES
IARC: ..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
LC: ..... LETHAL CONCENTRAION
LD: ..... LETHAL DOSE
TDG: ..... TRANSPORTATION OF DANGEROUS GOODS
TWA: ..... TIME WEIGHTED AVERAGE
VOC: ..... VOLATILE ORGANIC COMPOUND

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